	Application No.	Applicant(s)	JC 0
Notice of Allowability	09/867,678	CHONG ET AL.	•
	Examiner	Art Unit	
	Khanh B. Pham	2167	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commula IGHTS. This application is su	this application. If not included inication will be mailed in due co	j ourse. THIS
1. This communication is responsive to <u>amendment filed 7/13</u>	<u>3/2004</u> .		
2. The allowed claim(s) is/are 8-23 (Renumbered as 1-16).		•	
3. The drawings filed on 31 May 2001 are accepted by the Ex	caminer.		
4.	e been received. e been received in Application cuments have been received of this communication to file a dENT of this application. eitted. Note the attached EXAL as reason(s) why the oath or communication or communication.	n No I in this national stage applicatio a reply complying with the requi	irements
6. CORRECTED DRAWINGS (as "replacement sheets") mus			
(a) ☐ including changes required by the Notice of Draftspers		(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or i	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the	e drawings in the front (not the ba	ack) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT INFORMATION. 	sit of BIOLOGICAL MATE	RIAL must be submitted. Not	te the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date	6. ☐ Interview Sur Paper No./M 8), 7. ☐ Examiner's A	ormal Patent Application (PTO-1 mmary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowa	·

Art Unit: 2177

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

2. Applicant's submission filed on July 13, 2004 has been entered. Claims 1-7 have been canceled. Claims 15-23 have been added. Claims 8-23 are pending in this Office Action.

Allowable Subject Matter

- 3. Claims 8-23 are allowed. (Renumbered as 1-16)
- 4. The following is an examiner's statement of reasons for allowance:

Regarding independent claims 8, 13-15, 17, prior art of record does not teach the combination of claimed elements including the steps of: "generating a row of a mapping table for each row of the primary B+tree and storing in each row of the mapping table a row identifier for a corresponding row of the primary B+tree" as recited in claims 8, 13-15, nor "storing in each row of the primary B+tree a mapping table row identifier" as recited in claim 17. The closest prior art (Knudsen, US 5,682,535 A) teaches at Fig. 27 a "primary key index" (element 502) with pointers to a B+tree (element 507), it is noted that Knudsen describes at Col. 68, lines 50-65 that "The primary key index is a balanced binary tree 507 based on the B+ tree organization ordered on the primary key", therefore Knudsen's Fig. 27 does not teach a mapping table as claimed.

Application/Control Number: 09/867,678

Art Unit: 2177

Regarding independent claims 9, 20, prior art of record does not teach the combination of claimed elements including the steps of: "computing a length of a mapping table row based upon a length of a primary key and an overhead of guess-DBA; utilizing the computed length to identify a mapping table block that can accommodate the row; reserving a slot in the identified mapping table block, wherein an address of the block and a reserved slot form a mapping table physical row identifier; utilizing a leaf block address of the primary B+tree row to construct a row of the mapping table; and inserting the mapping table row in the reserved slot" as recited in independent claims 9, 20.

Thus, prior art of record neither renders obvious nor anticipates the combination of claimed elements in light of the specification. After a further search and a thorough examination of the present application and in light of the prior art made of record, claims 8, 9, 13-15, 17, 20 are allowed. Dependent claims 10-12, 16, 18-19, 21-23 are allowed at least by virtue of their dependencies from pertinent independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

Application/Control Number: 09/867,678

Art Unit: 2177

If a reference indicated as being mailed on PTO-FORM 892 has not been

Page 4

enclosed in this action, please contact Lisa Craney whose telephone number is (703)

305-9601 for faster service.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Khanh B. Pham whose telephone number is (571) 272-

4116. The examiner can normally be reached on Monday through Friday 7:30am to

4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John E Breene can be reached on (571) 272-4107. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Khanh B. Pham Examiner

Art Unit 2177

KBP

October 8, 2004